

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L13</u>	L8 same buffer	2	<u>L13</u>
<u>L12</u>	L8 same while	0	<u>L12</u>
<u>L11</u>	L8 same packet	2	<u>L11</u>
<u>L10</u>	L8 same error	4	<u>L10</u>
<u>L9</u>	L8 same second	39	<u>L9</u>
<u>L8</u>	L7 same plurality	113	<u>L8</u>
<u>L7</u>	decoding near3 combination	878	<u>L7</u>
<u>L6</u>	L5 same l4	13	<u>L6</u>
<u>L5</u>	combin\$	1697098	<u>L5</u>
<u>L4</u>	L3 same plurality	131	<u>L4</u>
<u>L3</u>	L2 same l1	1085	<u>L3</u>
<u>L2</u>	first same second	1855164	<u>L2</u>
<u>L1</u>	decod\$ same packet	7588	<u>L1</u>

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L6: Entry 4 of 13

File: USPT

Apr 10, 2001

DOCUMENT-IDENTIFIER: US 6216250 B1

TITLE: Error encoding method and apparatus for satellite and cable signals

Brief Summary Text (21):

According to a particular aspect of the present invention, a signal distribution system distributes a communication signal having a plurality of first data packets of a first length over a communication channel. The signal distribution system includes a decoder that decodes the communication signal to produce the plurality of first data packets, a repacketizer that repacketizes the plurality of first data packets into a multiplicity of second data packets of a second length that is different than the first length, and a signal encoder that combines the multiplicity of second data packets to form a combined signal. A transmitter then transmits the combined signal over the transmission channel. If desired, information indicating whether an uncorrected error is present within any of the first data packets and/or information pertaining to the decoding of the combined signal may be placed in the second data packets along with the first data packets.

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L11: Entry 1 of 2

File: USPT

Jan 4, 2000

DOCUMENT-IDENTIFIER: US 6012159 A

TITLE: Method and system for error-free data transfer

Brief Summary Text (24):

In accordance with one aspect of the invention, a method and a system are provided for transferring data from a host computer to one or more subscriber computers, the data consisting of a plurality of k original packets, where k is a positive integer. The method includes the steps of encoding the k original packets to form n encoded packets, where $n > k$, transmitting the encoded packets from the host computer to the subscriber computers, receiving some of the transmitted packets, and decoding any combination of k correctly-received encoded packets to reconstruct the original k packets.

CLAIMS:

2. A method for transferring data from a host computer to at least one subscriber computer, the data comprising a plurality of k original packets, where k is a positive integer, said method comprising the steps of:

dividing the original k packets into a plurality of groups of 1 packets;

separately encoding each group of 1 packets to form a plurality of n' encoded packets for each group, where $n' > 1$, and wherein n' is recomputed for each transmission based on an estimate of the percentage of packets expected to be lost during that transmission;

separately transmitting each group of encoded packets from the host computer to the at least one subscriber computer;

receiving, for each transmitted group, at least some of the transmitted packets;

separately decoding any combination of 1 correctly-received encoded packets for each group to reconstruct the 1 original packets of each group so as to form a plurality of decoded groups;

reconstructing the file from the plurality of decoded groups.

14. A system for transferring data from a host computer to at least one subscriber computer, the data comprising a plurality of k original packets, where k is a positive integer, said system comprising:

dividing means for dividing the original k packets into a plurality of groups of 1 packets;

an encoder for separately encoding each group of 1 packets to form a plurality of n' encoded packets for each group, where $n' > 1$, and wherein n' is recomputed for each transmission based on an estimate of the percentage of packets expected to be lost during that transmission;

a transmitter for separately transmitting each group of encoded packets from the host computer to the at least one subscriber computer;

a receiver for receiving, for each transmitted group, at least some of the transmitted packets;

a decoder for separately decoding any combination of 1 correctly-received encoded packets for each group to reconstruct the 1 original packets of each group so as to form a plurality of decoded groups; and

reconstructing means for reconstructing the file from the plurality of decoded groups.

17. A storage medium storing a computer readable program executable by a host computer to perform a method for transferring data from a host computer to at least one subscriber computer, the data comprising a plurality of k original packets, where k is a positive integer, said method comprising the steps of:

dividing the original k packets into a plurality of groups of 1 packets;

separately encoding each group of 1 packets to form a plurality of n' encoded packets for each group, where $n' > 1$, and wherein n' is recomputed for each transmission based on an estimate of the percentage of packets expected to be lost during that transmission;

separately transmitting each group of encoded packets from the host computer to the at least one subscriber computer;

receiving, for each transmitted group, at least some of the transmitted packets;

separately decoding any combination of 1 correctly-received encoded packets for each group to reconstruct the 1 original packets of each group so as to form a plurality of decoded groups; and

reconstructing the file from the plurality of decoded groups.

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